**Assignment -3**

Python Programming

|  |  |
| --- | --- |
| Assignment Date | 03 October 2022 |
| Student Name | Mr. Sanjeev V E |
| Student Roll Number | 737819ECR160 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write a python code for Blinking LED and Traffic Lights for Raspberry pi.

Solution:

import turtle

import time

wn= turtle.getscreen()

wn.bgcolor("yellow")

#gui interfrace

pen= turtle.Turtle()

pen.color("blue")

pen.width(6)

pen.hideturtle()

pen.penup()

pen.goto(-30, 60)

pen.pendown()

pen.fd(60)

pen.rt(90)

pen.fd(120)

pen.rt(90)

pen.fd(60)

pen.rt(90)

pen.fd(120)

#red light

red\_light =turtle.Turtle()

red\_light.shape("circle")

red\_light.color("white")

red\_light.penup()

red\_light.goto(0, 40)

#orange light

orange\_light =turtle.Turtle()

orange\_light.shape("circle")

orange\_light.color("white")

orange\_light.penup()

orange\_light.goto(0, 0)

#Green light

green\_light =turtle.Turtle()

green\_light.shape("circle")

green\_light.color("white")

green\_light.penup()

green\_light.goto(0, -40)

while True:

green\_light.color("white")

red\_light.color("red")

print("Red light ON ")

print("Blink!!")

print("Blink!!")

time.sleep(3)

print("")

print("")

print("")

print("")

print("")

print("")

print("")

red\_light.color("white")

orange\_light.color("orange")

green\_light.color("white")

print("Orange light ON")

print("Blink!!")

print("Blink!!")

time.sleep(3)

print("")

print("")

print("")

print("")

print("")

print("")

print("")

red\_light.color("white")

orange\_light.color("white")

green\_light.color("green")

print("Green light ON")

print("Blink!!")

print("Blink!!")

time.sleep(3)

print("")

print("")

print("")

print("")

print("")

print("")

print("")

wn.mainloop()

Output:





